

Wikiprint Book

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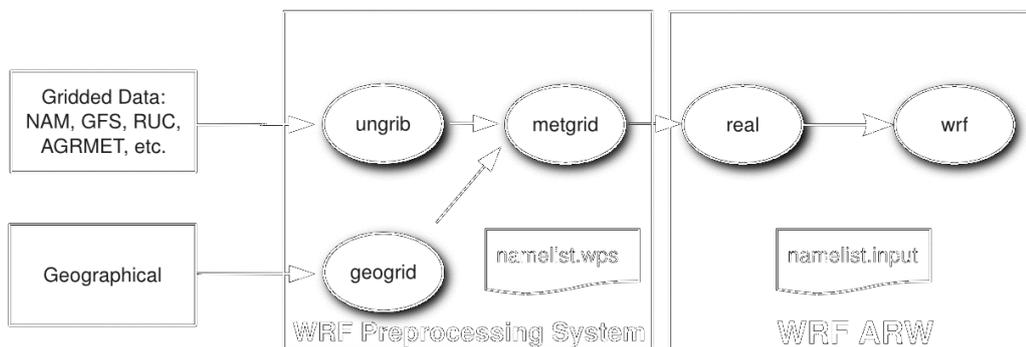
Introduction

WRF for GRID (WRF4G) is a framework for the execution and monitoring of the WRF Modelling System in distributed computer resources (see this presentation). It provides a flexible and easy way of designing complex experiments involving many simulations (multiple start/end dates, multi-parametric simulations, long climate runs, ...). The monitor allows a precise control of the experiment's state, where broken simulations are automatically detected and relaunched at the next submission.

Given a list of computer resources the user can access, WRF4G submits the experiment to them according to the experiment needs. Users can configure different kind of resources (Their local PCs, stand-alone servers, PBS or SGE Clusters,...) and use them at the same time to run different simulations of a WRF experiment. Output files are centrally stored regardless the computing resources used to run the simulations.

WRF4G separates the experiment design from the execution environment. To prepare a experiment, users are required to fill in two files: [experiment.wrf4g](#) which defines the WRF experiment, and [resources.wrf4g](#), where running environment and storage resources are configured. WRF4G provides a [command line interface](#) that allow the users to prepare, run and monitor their experiments.

The following picture shows the main WRF4G components and the interaction among them.



Documentation

- [Installation Guide](#)
- Tutorial:
 - [How to run a simple experiment](#)
 - [Part2](#)
- [How to run a reforecast experiment using WRF4G](#)
- [WRF4G Framework](#)
- [WRF4G Command Line Interface](#)
- WRF4G Configuration files:
 - Resources setup
 - [framework4g.conf](#)

- [gwd.conf](#)
- Experiment setup
 - [experiment.wrf4g](#)
 - [resources.wrf4g](#)
 - [prolog.wrf4g](#)
- [WRF Distributions](#)
- [FAQ](#)

Problems

If you happen to have any problems, please [?send us a ticket!!](#)